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1 **A multimedia news delivery system over an ATM network**
Falchuk, B.; Karmouch, A.;
Multimedia Computing and Systems, 1995., Proceedings of the International Conference on , 15-18 May 1995
Pages:56 - 63

[Abstract] [PDF Full-Text (1056 KB)] **IEEE CNF**

2 **A distributed platform for interactive multimedia**
Megzari, O.; Brahmanandam, M.; Karmouch, A.;
Electrical and Computer Engineering, 1994. Conference Proceedings. 1994 Canadian Conference on , 25-28 Sept. 1994
Pages:755 - 758 vol.2

[Abstract] [PDF Full-Text (396 KB)] **IEEE CNF**

3 **The integration of a newsroom computer system with a server-cent news production system**
Vigneaux, S.;
Broadcasting Convention, International (Conf. Publ. No. 428) , 12-16 Sept. 1
Pages:512 - 518

[Abstract] [PDF Full-Text (468 KB)] **IEE CNF**

4 **Maintaining a COTS integrated solution-are traditional static analys techniques sufficient for this new programming methodology?**
Cherinka, R.; Overstreet, C.M.; Ricci, J.;
Software Maintenance, 1998. Proceedings. International Conference on , 16-
Nov. 1998

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1 Client-server computing in mobile environments
Jin Jing, Abdelsalam Sumi Helal, Ahmed Elmagarmid
June 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 2

Full text available: pdf(233.31 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Recent advances in wireless data networking and portable information appliances have engendered a new paradigm of computing, called mobile computing, in which users carrying portable devices have access to data and information services regardless of their physical location or movement behavior. In the meantime, research addressing information access in mobile environments has proliferated. In this survey, we provide a concrete framework and categorization of the various way ...

Keywords: application adaptation, cache invalidation, caching, client/server, data dissemination, disconnected operation, mobile applications, mobile client/server, mobile compuing, mobile data, mobility awareness, survey, system application

2 Fast detection of communication patterns in distributed executions
Thomas Kunz, Michiel F. H. Seuren
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

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Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

3 Level II technical support in a distributed computing environment
Tim Leehane
September 1996 **Proceedings of the 24th annual ACM SIGUCCS conference on User services**

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4 Scheduling optimization for resource-intensive Web requests on server clusters
Huican Zhu, Ben Smith, Tao Yang
June 1999 **Proceedings of the eleventh annual ACM symposium on Parallel algorithms and architectures**
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5 Web-based development of complex information products
Roy T. Fielding, E. James Whitehead, Kenneth M. Anderson, Gregory A. Bolcer, Peyman Oreizy, Richard N. Taylor
August 1998 **Communications of the ACM**, Volume 41 Issue 8
Full text available: pdf(200.01 KB) Additional Information: full citation, references, citings, index terms

6 IS '97: model curriculum and guidelines for undergraduate degree programs in information systems
Gordon B. Davis, John T. Gorgone, J. Daniel Couger, David L. Feinstein, Herbert E. Longenecker
December 1997 **ACM SIGMIS Database , Guidelines for undergraduate degree programs on Model curriculum and guidelines for undergraduate degree programs in information systems**, Volume 28 Issue 1
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7 Tools and approaches for developing data-intensive Web applications: a survey
Piero Fraternali
September 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 3
Full text available: pdf(524.80 KB) Additional Information: full citation, abstract, references, citings, index terms

The exponential growth and capillar diffusion of the Web are nurturing a novel generation of applications, characterized by a direct business-to-customer relationship. The development of such applications is a hybrid between traditional IS development and Hypermedia authoring, and challenges the existing tools and approaches for software production. This paper investigates the current situation of Web development tools, both in the commercial and research fields, by identifying and characte ...

Keywords: HTML, Intranet, WWW, application, development

8 Help design challenges in network computing
Ben Gelernter
September 1998 **Proceedings of the 16th annual international conference on Computer documentation**
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Keywords: documentation, help, information architecture, network computing, network computing architecture, online help, thin clients, user assistance

9 Integrated document caching and prefetching in storage hierarchies based on Markov-chain predictions
Achim Kraiss, Gerhard Weikum
August 1998 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 7 Issue 3
Full text available: pdf(603.01 KB) Additional Information: full citation, abstract, citings, index terms

Large multimedia document archives may hold a major fraction of their data in tertiary storage libraries for cost reasons. This paper develops an integrated approach to the vertical data migration between the tertiary, secondary, and primary storage in that it reconciles speculative prefetching, to mask the high latency of the tertiary storage, with the replacement policy of the document caches at the secondary and primary storage level, and also considers the interaction of these policies with ...

Keywords: Caching, Markov chains, Performance, Prefetching, Scheduling, Stochastic modeling, Tertiary storage

10 Managing update conflicts in Bayou, a weakly connected replicated storage system
D. B. Terry, M. M. Theimer, Karin Petersen, A. J. Demers, M. J. Spreitzer, C. H. Hauser
December 1995 **ACM SIGOPS Operating Systems Review , Proceedings of the fifteenth ACM symposium on Operating systems principles**, Volume 29 Issue 5
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11 The SIFT information dissemination system
Tak W. Yan, Hector Garcia-Molina
December 1999 **ACM Transactions on Database Systems (TODS)**, Volume 24 Issue 4
Full text available: pdf(220.77 KB) Additional Information: full citation, abstract, references, citings, index terms

Information dissemination is a powerful mechanism for finding information in wide-area environments. An information dissemination server accepts long-term user queries, collects new documents from information sources, matches the documents against the queries, and continuously updates the users with relevant information. This paper is a retrospective of the Stanford Information Filtering Service (SIFT), a system that as of April 1996 was processing over 40,000 worldwide subscriptions and ov ...

Keywords: Boolean queries, dissemination, filtering, indexing, vector space queries

12 Flexible update propagation for weakly consistent replication
Karin Petersen, Mike J. Spreitzer, Douglas B. Terry, Marvin M. Theimer, Alan J. Demers
October 1997 **ACM SIGOPS Operating Systems Review , Proceedings of the sixteenth ACM symposium on Operating systems principles**, Volume 31 Issue 5
Full text available: pdf(2.16 MB) Additional Information: full citation, references, citings, index terms

13 Fragmented interaction: establishing mutual orientation in virtual environments
Jon Hindmarsh, Mike Fraser, Christian Heath, Steve Benford, Chris Greenhalgh
November 1998 **Proceedings of the 1998 ACM conference on Computer supported cooperative work**
Full text available: pdf(2.26 MB) Additional Information: full citation, references, citings, index terms

Keywords: media spaces, object-focused work, social interaction, virtual environments

14 Mitigating server-side congestion in the Internet through pseudoserving
Keith Kong, Dipak Ghosal
August 1999 **IEEE/ACM Transactions on Networking (TON)**, Volume 7 Issue 4
Full text available: pdf(229.43 KB) Additional Information: full citation, references, citings, index terms

Keywords: Internet server technology, caching, flash-crowd, pseudoserving

15 Mariposa: a wide-area distributed database system
Michael Stonebraker, Paul M. Aoki, Witold Litwin, Avi Pfeffer, Adam Sah, Jeff Sidell, Carl Staelin, Andrew Yu
January 1996 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 5 Issue 1
Full text available: pdf(172.75 KB) Additional Information: full citation, abstract, citings, index terms

The requirements of wide-area distributed database systems differ dramatically from those of local-area network systems. In a wide-area network (WAN) configuration, individual sites usually report to different system administrators, have different access and charging algorithms, install site-specific data type extensions, and have different constraints on servicing remote requests. Typical of the last point are production transaction environments, which are fully engaged during normal business h ...

Keywords: Autonomy, Databases, Distributed systems, Economic site, Name service, Wide-area network

16 Presto: an experimental architecture for fluid interactive document spaces
Paul Dourish, W. Keith Edwards, Anthony LaMarca, Michael Salisbury
June 1999 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 6 Issue 2
Full text available: pdf(409.04 KB) Additional Information: full citation, abstract, references, citings, index terms

Traditional document systems use hierarchical filing structures as the basis for organizing, storing and retrieving documents. However, this structure is very limited in comparison with the rich and varied forms of document interaction and category management in everyday document use. Presto is a prototype document management system providing rich interaction with documents through meaningful, user-level document attributes, such as "Word file," "published paper," &l ...

Keywords: attribute/value systems, direct manipulation, document management

17 Access control for large collections
H. M. Gladney
April 1997 **ACM Transactions on Information Systems (TOIS)**, Volume 15 Issue 2
Full text available: pdf(482.88 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Efforts to place vast information resources at the fingertips of each individual in large user populations must be balanced by commensurate attention to information protection. For

distributed systems with less-structured tasks, more-diversified information, and a heterogeneous user set, the computing system must administer enterprise-chosen access control policies. One kind of resource is a digital library that emulates massive collections of paper and other physical media for clerical, en ...

Keywords: access control, digital library, document, electronic library, information security

18 Reusable software components
Trudy Levine
July 1996 **ACM SIGAda Ada Letters**, Volume XVI Issue 4
Full text available: pdf(2.45 MB) Additional Information: full citation, index terms

19 World Wide Web distributed authoring and versioning (WebDAV): an introduction
E. James Whitehead
March 1997 **StandardView**, Volume 5 Issue 1
Full text available: pdf(81.76 KB) Additional Information: full citation, references, citings, index terms, review

20 Broadcast protocols to support efficient retrieval from databases by mobile users
Anindya Datta, Debra E. VanderMeer, Aslihan Celik, Vijay Kumar
March 1999 **ACM Transactions on Database Systems (TODS)**, Volume 24 Issue 1
Full text available: pdf(638.48 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Mobile computing has the potential for managing information globally. Data management issues in mobile computing have received some attention in recent times, and the design of adaptive braodcast protocols has been posed as an important probllem. Such protocols are employed by database servers to decide on the content of bbroadcasts dynamically, in response to client mobility and demand patterns. In this paper we design such protocols and also propose efficient retrieval s ...

Keywords: adaptive broadcast protocols, client-server computing, energy conservation, mobile databases

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1 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren
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Tim Leehane
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3 Tools and approaches for developing data-intensive Web applications: a survey

Piero Fraternali
September 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 3

Full text available: pdf(524.80 KB) Additional Information: full citation, abstract, references, citings, index terms

The exponential growth and capillar diffusion of the Web are nurturing a novel generation of applications, characterized by a direct business-to-customer relationship. The development of such applications is a hybrid between traditional IS development and Hypermedia authoring, and challenges the existing tools and approaches for software production. This paper investigates the current situation of Web development tools, both in the commercial and research fields, by identifying and characte ...

Keywords: HTML, Intranet, WWW, application, development

4 Mitigating server-side congestion in the Internet through pseudoserving

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Keywords: Internet server technology, caching, flash-crowd, pseudoserving

5 Access control for large collections

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April 1997 **ACM Transactions on Information Systems (TOIS)**, Volume 15 Issue 2

Full text available: pdf(482.88 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Efforts to place vast information resources at the fingertips of each individual in large user populations must be balanced by commensurate attention to information protection. For distributed systems with less-structured tasks, more-diversified information, and a heterogeneous user set, the computing system must administer enterprise-chosen access control policies. One kind of resource is a digital library that emulates massive collections of paper and other physical media for clerical, en ...

Keywords: access control, digital library, document, electronic library, information security

6 Mariposa: a wide-area distributed database system

Michael Stonebraker, Paul M. Aoki, Witold Litwin, Avi Pfeffer, Adam Sah, Jeff Sidell, Carl Staelin, Andrew Yu

January 1996 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 5 Issue 1

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Keywords: Autonomy, Databases, Distributed systems, Economic site, Name service, Wide-area network

7 The transport layer: tutorial and survey

Sami Iren, Paul D. Amer, Phillip T. Conrad

December 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 4

Full text available: pdf(261.78 KB) Additional Information: full citation, abstract, references, citings, index terms

Transport layer protocols provide for end-to-end communication between two or more hosts. This paper presents a tutorial on transport layer concepts and terminology, and a survey of transport layer services and protocols. The transport layer protocol TCP is used as a reference point, and compared and contrasted with nineteen other protocols designed over the past two decades. The service and protocol features of twelve of the most important protocols are summarized in both text and tables.< ...

Keywords: TCP/IP networks, congestion control, flow control, transport protocol, transport service

8 Experiences with network-based user agents for mobile applications

Thomas F. La Porta, Thomas Woo, Krishan K. Sabnani, Ramachandran Ramjee

August 1998 **Mobile Networks and Applications**, Volume 3 Issue 2

Full text available: pdf(631.57 KB) Additional Information: full citation, abstract, references, citings, index terms

Wireless networks are characterized by simple end devices and limited bandwidth. One solution to address these and other limitations of the wireless mobile environment that has been widely pursued is the placement of proxies, or agents, inside the network to assist with application processing that would normally take place on end devices. These agents can additionally manipulate data to reduce bandwidth requirements and assist in providing services. The design and implementation of a user a ...

9 Towards a theory of cost management for digital libraries and electronic commerce

A. Prasad Sistla, Ouri Wolfson, Yelena Yesha, Robert Sloan

December 1998 **ACM Transactions on Database Systems (TODS)**, Volume 23 Issue 4

Full text available: pdf(246.67 KB) Additional Information: full citation, abstract, references, citings, index terms

One of the features that distinguishes digital libraries from traditional databases is new cost models for client access to intellectual property. Clients will pay for accessing data items in digital libraries, and we believe that optimizing these costs will be as important as optimizing performance in traditional databases. In this article we discuss cost models and protocols for accessing digital libraries, with the objective of determining the minimum cost protocol for each model. We exp ...

Keywords: average case analysis, caching, cost models, demand, on-line services, protocols, subscription, worst case analysis

10 Locality-aware request distribution in cluster-based network servers

Vivek S. Pai, Mohit Aron, Gaurov Banga, Michael Svendsen, Peter Druschel, Willy Zwaenepoel, Erich Nahum

October 1998 **Proceedings of the eighth international conference on Architectural support for programming languages and operating systems**, Volume 33 , 32 Issue 11 , 5

Full text available: pdf(1.59 MB) Additional Information: full citation, abstract, references, citings, index terms

We consider cluster-based network servers in which a front-end directs incoming requests to one of a number of back-ends. Specifically, we consider *content-based request distribution:* the front-end uses the content requested, in addition to information about the load on the back-end nodes, to choose which back-end will handle this request. Content-based request distribution can improve locality in the back-ends' main memory caches, increase secondary storage scalability by partitioning th ...

11 Illustrative risks to the public in the use of computer systems and related technology

Peter G. Neumann

January 1996 **ACM SIGSOFT Software Engineering Notes**, Volume 21 Issue 1

Full text available: pdf(2.54 MB) Additional Information: full citation

12 A scalable Web cache consistency architecture

Haobo Yu, Lee Breslau, Scott Shenker

August 1999 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Applications, technologies, architectures, and protocols for computer communication**, Volume 29 Issue 4

Full text available: pdf(1.71 MB) Additional Information: full citation, abstract, references, citings, index terms

The rapid increase in web usage has led to dramatically increased loads on the network infrastructure and on individual web servers. To ameliorate these mounting burdens, there has been much recent interest in web caching architectures and algorithms. Web caching reduces network load, server load, and the latency of responses. However, web caching has the disadvantage that the pages returned to clients by caches may be *stale*, in that they may not be consistent with the version currently o ...

13 Reducing the budget on state of the art computing

Cary B. Abend

November 1999 **Proceedings of the 27th annual ACM SIGUCCS conference on User services: Mile high expectations**

Full text available: pdf(35.69 KB) Additional Information: full citation, index terms

Keywords: budget, increase, manage, partner, performance, reduce, return on investment

14 Computing as a discipline

D. E. Comer, David Gries, Michael C. Mulder, Allen Tucker, A. Joe Turner, Paul R. Young

February 1989 **Communications of the ACM**, Volume 32 Issue 1

Full text available: pdf(1.68 MB) Additional Information: full citation, abstract, references, citings, index terms

The final report of the Task Force on the Core of Computer Science presents a new intellectual framework for the discipline of computing and a new basis for computing curricula. This report has been endorsed and approved for release by the ACM Education Board.

15 Cluster-based scalable network services

Armando Fox, Steven D. Gribble, Yatin Chawathe, Eric A. Brewer, Paul Gauthier

October 1997 **ACM SIGOPS Operating Systems Review , Proceedings of the sixteenth ACM symposium on Operating systems principles**, Volume 31 Issue 5

Full text available: pdf(2.42 MB) Additional Information: full citation, references, citings, index terms

16 Context-sensitive learning methods for text categorization

William W. Cohen, Yoram Singer

April 1999 **ACM Transactions on Information Systems (TOIS)**, Volume 17 Issue 2

Full text available: pdf(256.75 KB) Additional Information: full citation, abstract, references, citings, index terms

Two recently implemented machine-learning algorithms, RIPPERand sleeping-experts for phrases, are evaluated on a number of large text categorization problems. These algorithms both construct classifiers that allow the "context" of a word w to affect how (or even whether) the presence or absence of w will contribute to a classification. However, RIPPER

and sleeping-experts differ radically in many other respects: ...

Keywords: context-sensitive models, mistake-driven algorithms, on-line learning, rule learning, text categorization

17 A brief survey of current work on network attached peripherals (extended abstract)

Rodney Van Meter

January 1996 **ACM SIGOPS Operating Systems Review**, Volume 30 Issue 1

Full text available: pdf(725.39 KB) Additional Information: full citation, abstract, citings, index terms

Work on network-attached peripherals (NAPs) can be divided into essentially three areas --- device interfaces and protocols, multimedia use and mass storage use. This paper is an extended abstract reviewing some of the current work and provides references and WWW pointers to many of the projects. The impact of this technological advance on operating systems is discussed. The primary purpose of this paper is to broaden understanding of the advantages and pitfalls of NAPs and encourage further res ...

18 Octopus: embracing the energy efficiency of handheld multimedia computers

Paul J. M. Havinga, Gerard J. M. Smit

August 1999 **Proceedings of the 5th annual ACM/IEEE international conference on Mobile computing and networking**

Full text available: pdf(1.75 MB) Additional Information: full citation, references, citings, index terms

Keywords: energy efficiency, handheld computers, multimedia, quality of service, switching fabric

19 SaveMe: a system for archiving electronic documents using messaging groupware

Stefan Berchtold, Alexandros Biliris, Euthimios Panagos

March 1999 **ACM SIGSOFT Software Engineering Notes , Proceedings of the international joint conference on Work activities coordination and collaboration**, Volume 24 Issue 2

Full text available: pdf(1.47 MB) Additional Information: full citation, abstract, references, index terms

Today, organizations deal with an ever-increasing number of documents that have to be archived because they are either related to their core business (e.g., product designs) or needed to meet corporate or legal retention requirements (e.g., voucher). In this paper, we present the architecture and prototype implementation of SaveMe, a document archival system that is based on network-centric groupware such as Internet standards-based messaging systems. In SaveMe, the actions of archiving, retriev ...

Keywords: Internet, archiving, groupware, messaging

20 The SDSC storage resource broker

Chaitanya Baru, Reagan Moore, Arcot Rajasekar, Michael Wan

November 1998 **Proceedings of the 1998 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: pdf(153.81 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes the architecture of the SDSC Storage Resource Broker (SRB). The SRB is middleware that provides applications a uniform API to access heterogeneous distributed storage resources including, filesystems, database systems, and archival storage systems.

The SRB utilizes a metadata catalog service, MCAT, to provide a "collection"- oriented view of data. Thus, data items that belong to a single collection may, in fact, be stored on heterogeneous storage systems. The SRB infrastruct ...

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